PAGE: 1

SEQUENCE CORRECTION REPORT PATENT APPLICATION US/07/978,891B

DATE: 05/27/93 TIME: 16:26:24

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LINE ORIGINAL TEXT

CORRECTED TEXT

14	(iv)	CORRESPONDING ADI	RESS:		(iv) CORRESPONDENCE ADDRESS:
344	(3)	INFORMATION FO	R SEQ ID NO:	2:	(2) INFORMATION FOR SEQ ID NO: 2:
670	(4)	INFORMATION FOR SI	Q ID NO: 3:		(2) INFORMATION FOR SEQ ID NO: 3:
688	(5)	INFORMATION FOR SI	Q ID NO: 4:		(2) INFORMATION FOR SEQ ID NO: 4:
705	(6)	INFORMATION FO	R SEQ ID NO:	5:	(2) INFORMATION FOR SEQ ID NO: 5:
740	(7)	INFORMATION FO	R SEQ ID NO:	6:	(2) INFORMATION FOR SEQ ID NO: 6:
759	(8)	INFORMATION FO	R SEQ ID NO:	7:	(2) INFORMATION FOR SEQ ID NO: 7:
778	(9)	INFORMATION FO	R SEQ ID NO:	8:	(2) INFORMATION FOR SEQ ID NO: 8:

PAGE: 1

SEQUENCE MISSING ITEM REPORT PATENT APPLICATION US/07/978,891B

DATE: 05/27/93 TIME: 16:26:24

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MANDATORY IDENTIFIER THAT WAS NOT FOUND

PRIOR APPLICATION DATA
APPLICATION NUMBER
FILING DATE

SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/07/978,891B

ENTERED

DATE: 05/27/93 TIME: 16:26:24

S4547

ORIGINAL TEXT

LINE ERROR

PAGE:

· 1

Raw Sequence Listing



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1
                                      SEQUENCE LISTING
 2
 3
    (1) GENERAL INFORMATION:
 4
 5
 6
         (i) APPLICANT: Darrell Anderson, Nabil Hanna, John Leonard,
        Roland Newman and Mitchell Reff
 7
 8
        (ii) TITLE OF INVENTION: THERAPEUTIC APPLICATION OF CHIMERIC
 9
10
         ANTIBODY TO HUMAN B LYMPHOCYTE
11
       (iii) NUMBER OF SEQUENCES:
12
13
        (iv) CORRESPONDING ADDRESS:
14
     (A) ADDRESSEE: IDEC Pharmaceuticals Corporation
15
     (B) STREET:
                    11099 N. Torrey Pines Road, #160
16
17
     (C) CITY:
                    La Jolla
     (D) STATE:
                    California
18
     (E) COUNTRY:
19
                    USA
     (F) ZIP:
                    92037
20
21
22
         (v) COMPUTER READABLE FORM:
23
     (A) MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb
     (B) COMPUTER: Macintosh
24
     (C) OPERATING SYSTEM: MS.DOS
25
     (D) SOFTWARE: Microsoft Word 5.0
26
27
        (vi) CURRENT APPLICATION DATA:
28
     (A) APPLICATION NUMBER: US/07/978,891B
29
30
     (B) FILING DATE: 13 NOV 1992
31
     (C) CLASSIFICATION: 424
32
      (viii) ATTORNEY/AGENT INFORMATION:
33
34
     (A) NAME: Burgoon, Richard P. Jr.
35
     (B) REGISTRATION NUMBER:
                                34,787
     (C) REFERENCE/DOCKET NUMBER:
36
37
38
        (ix) TELECOMMUNICATION INFORMATION:
39
     (A) TELEPHONE: (619) 458-0600
     (B) TELEFAX: (619) 546-9274
40
41
42
    (2) INFORMATION FOR SEQ ID NO:
         (i) SEQUENCE CHARACTERISTICS:
43
     (A) LENGTH: 8540 bases
44
     (B) TYPE: nucleic acid
45
     (C) STRANDEDNESS: single
46
     (D) TOPOLOGY: circular
47
48
49
        (ii) MOLECULE TYPE: DNA (genomic)
50
51
       (iii) HYPOTHETICAL: no
52
```

Raw Sequence Listing

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	(
53 54	(iv) ANT	I-SENSE: no)				
55	(ix) SEQU	JENCE DESCRI	PTION: SEC	ID NO: 1:	1		
56							
57	GACGTCGCGG CC	CGCTCTAGG CC	CTCCAAAAA AG	ECCTCCTCA C	FACTTCTGG AA	TAGCTCAG 6)
58	1 000001 000	GGCCTCGGCC	momoo amaaa	maaaaaaaa	መአ ረምረ አ ሮሮር አ	тесттессе	120
59	AGGCCGAGGC	GGCCTCGGCC	TCTGCATAAA	TAAAAAAAAT	IAGICAGCCA	IGCAIGGGC	120
60 61	CCACAATCCC	CGGAACTGGG	СССРСТТРСС	GGCGGGATGG	GCGGAGTTAG	GGGCGGGACT	180
62	GGAGARIGGG	COGMICTOO	00010111100	00000011100	000011011110		
63	ATGGTTGCTG	ACTAATTGAG	ATGCATGCTT	TGCATACTTC	TGCCTGCTGG	GGAGCCTGGG	240
64							
65	GACTTTCCAC	ACCTGGTTGC	TGACTAATTG	AGATGCATGC	TTTGCATACT	TCTGCCTGCT	300
66							
67	GGGGAGCCTG	GGGACTTTCC	ACACCCTAAC	TGACACACAT	TCCACAGAAT	TAATTCCCCT	360
68		AGTAATCAAT	m> aaaaaama	mm a cmmc a ma		CC3 CTTCCCC	420
69 70	AGTTATTAAT	AGTAATCAAT	TACGGGGTCA	TIAGTICATA	GCCCATATAT	GGAGTICCGC	720
71	СТТАСАТААС	TTACGGTAAA	TGGCCCGCCT	GGCTGACCGC	CCAACGACCC	CCGCCCATTG	480
72	Olimoniano	111100011111	20000000		•••••		
73	ACGTCAATAA	TGACGTATGT	TCCCATAGTA	ACGCCAATAG	GGACTTTCCA	TTGACGTCAA	540
74							
75	TGGGTGGACT	ATTTACGGTA	AACTGCCCAC	TTGGCAGTAC	ATCAAGTGTA	TCATATGCCA	600
76							
77	AGTACGCCCC	CTATTGACGT	CAATGACGGT	AAATGGCCCG	CCTGGCATTA	TGCCCAGTAC	000
78 79	እመ <i>ር እ ር/ር</i> መሞእጥ	GGGACTTTCC	ТАСТТСССАС	ТАСАТСТАСС	таттастсат	СССТАТТАСС	720
80	AIGACCIIAI	GGGACTITCC	INCITOGUAG	Inchicinco	1111111010111		•
81	ATGGTGATGC	GGTTTTGGCA	GTACATCAAT	GGGCGTGGAT	AGCGGTTTGA	CTCACGGGGA	780
82							
83	TTTCCAAGTC	TCCACCCCAT	TGACGTCAAT	GGGAGTTTGT	TTTGGCACCA	AAATCAACGG	840
84						m) cacamam)	000
85	GACTTTCCAA	AATGTCGTAA	CAACTCCGCC	CCATTGACGC	AAATGGGCGG	TAGGCGTGTA	900
86 87	CCCTCCCACC	TCTATATAAG	СУСУССТССС	тасстсаасс	GTCAGATCGC	CTGGAGACGC	960
88	CGGIGGGNGG	ICINIMIMO	CHOMOTOGO	11.001011100	010111111111111111111111111111111111111	•-•	
89	CATCACAGAT	CTCTCACCAT	GAGGGTCCCC	GCTCAGCTCC	TGGGGCTCCT	GCTGCTCTGG	1020
90							
91	CTCCCAGGTG	CACGATGTGA	TGGTACCAAG	GTGGAAATCA	AACGTACGGT	GGCTGCACCA	1080
92						am am ammama	1146
93	TCTGTCTTCA	TCTTCCCGCC	ATCTGATGAG	CAGTTGAAAT	CTGGAACTGC	CTCTGTTGTG	114(
94 95	TO COUTO COTO A	ATAACTTCTA	TCCCAGAGAG	CCCAAACTAC	ACTCCA ACCT	GGATAACGCC	1200
96	IGCCIGCIGA	AIAACIICIA	ICCCAGAGAG	GCCAMAGIAC	MOIGORNOOI	00.12.12.0000	
97	CTCCAATCGG	GTAACTCCCA	GGAGAGTGTC	ACAGAGCAGG	ACAGCAAGGA	CAGCACCTAC	1260
98							
99	AGCCTCAGCA	GCACCCTGAC	GCTGAGCAAA	GCAGACTACG	AGAAACACAA	AGTCTACGCC	1320
100							
101	TGCGAAGTCA	CCCATCAGGG	CCTGAGCTCG	CCCGTCACAA	AGAGCTTCAA	CAGGGGAGAG	1380
102	mamma	101mccc==-	1 CCCCCCC CCC	3 CM3 CCM3 C3	CITICO & INTERCED	CACA ACAMCC	1444
103 104	TGTTGAATTC	AGATCCGTTA	ACGGTTACCA	ACTACCTAGA	CIGGATICGI	GACAACATGC	T44(
TOZ							

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05/27/93 16:25:01 S4547.raw

105 106	GGCCGTGATA	TCTACGTATG	ATCAGCCTCG	ACTGTGCCTT	CTAGTTGCCA	GCCATCTGTT	1500
107 108	GTTTGCCCCT	CCCCGTGCC	TTCCTTGACC	CTGGAAGGTG	CCACTCCCAC	TGTCCTTTCC	1560
109	TAATAAAATG	AGGAAATTGC	ATCGCATTGT	CTGAGTAGGT	GTCATTCTAT	TCTGGGGGGT	1620
110 111	GGGGTGGGGC	AGGACAGCAA	GGGGGAGGAT	TGGGAAGACA	ATAGCAGGCA	TGCTGGGGAT	1680
112 113	GCGGTGGGCT	CTATGGAACC	AGCTGGGGCT	CGACAGCTAT	GCCAAGTACG	CCCCCTATTG	1740
114 115	ACGTCAATGA	CGGTAAATGG	CCCGCCTGGC	ATTATGCCCA	GTACATGACC	TTATGGGACT	1800
116 117	TTCCTACTTG	GCAGTACATC	TACGTATTAG	TCATCGCTAT	TACCATGGTG	ATGCGGTTTT	1860
118 119	GGCAGTACAT	CAATGGGCGT	GGATAGCGGT	TTGACTCACG	GGGATTTCCA	AGTCTCCACC	1920
120 121	CCATTGACGT	CAATGGGAGT	TTGTTTTGGC	ACCAAAATCA	ACGGGACTTT	CCAAAATGTC	1980
122 123	GTAACAACTC	CGCCCCATTG	ACGCAAATGG	GCGGTAGGCG	TGTACGGTGG	GAGGTCTATA	2040
124 125	TAAGCAGAGC	TGGGTACGTC	CTCACATTCA	GTGATCAGCA	CTGAACACAG	ACCCGTCGAC	2100
126 127	ATGGGTTGGA	GCCTCATCTT	GCTCTTCCTT	GTCGCTGTTG	CTACGCGTGT	CGCTAGCACC	2160
128 129	AAGGGCCCAT	CGGTCTTCCC	CCTGGCACCC	TCCTCCAAGA	GCACCTCTGG	GGGCACAGCG	2220
130 131	GCCCTGGGCT	GCCTGGTCAA	GGACTACTTC	CCCGAACCGG	TGACGGTGTC	GTGGAACTCA	2280
132 133	GGCGCCCTGA	CCAGCGGCGT	GCACACCTTC	CCGGCTGTCC	TACAGTCCTC	AGGACTCTAC	2340
134 135	TCCCTCAGCA	GCGTGGTGAC	CGTGCCCTCC	AGCAGCTTGG	GCACCCAGAC	CTACATCTGC	2400
136 137	AACGTGAATC	ACAAGCCCAG	CAACACCAAG	GTGGACAAGA	AAGCAGAGCC	CAAATCTTGT	2460
138 139	GACAAAACTC	ACACATGCCC	ACCGTGCCCA	GCACCTGAAC	TCCTGGGGGG	ACCGTCAGTC	2520
140 141	TTCCTCTTCC	CCCCAAAACC	CAAGGACACC	CTCATGATCT	CCCGGACCCC	TGAGGTCACA	2580
142 143	TGCGTGGTGG	TGGACGTGAG	CCACGAAGAC	CCTGAGGTCA	AGTTCAACTG	GTACGTGGAC	2640
144 145	GGCGTGGAGG	TGCATAATGC	CAAGACAAAG	CCGCGGGAGG	AGCAGTACAA	CAGCACGTAC	2700
146 147	CGTGTGGTCA	GCGTCCTCAC	CGTCCTGCAC	CAGGACTGGC	TGAATGGCAA	GGAGTACAAG	2760
148 149	TGCAAGGTCT	CCAACAAAGC	CCTCCCAGCC	CCCATCGAGA	AAACCATCTC	CAAAGCCAAA	2820
150 151	GGGCAGCCCC	GAGAACCACA	GGTGTACACC	CTGCCCCCAT	CCCGGGATGA	GCTGACCAAG	2880
152 153	AACCAGGTCA	GCCTGACCTG	CCTGGTCAAA	GGCTTCTATC	CCAGCGACAT	CGCCGTGGAG	2940
154 155	TGGGAGAGCA	ATGGGCAGCC	GGAGAACAAC	TACAAGACCA	CGCCTCCCGT	GCTGGACTCC	3000
156							

Raw Sequence Listing

05/27/93 16:25:02 S4547.raw

157	GACGGCTCCT	TCTTCCTCTA	CAGCAAGCTC	ACCGTGGACA	AGAGCAGGTG	GCAGCAGGGG	3060
158 159	AACGTCTTCT	CATGCTCCGT	GATGCATGAG	GCTCTGCACA	ACCACTACAC	GCAGAAGAGC	3120
160 161	CTCTCCCTGT	CTCCGGGTAA	ATGAGGATCC	GTTAACGGTT	ACCAACTACC	TAGACTGGAT	3180
162 163	TCGTGACAAC	ATGCGGCCGT	GATATCTACG	TATGATCAGC	CTCGACTGTG	CCTTCTAGTT	3240
164 165	GCCAGCCATC	TGTTGTTTGC	CCCTCCCCG	TGCCTTCCTT	GACCCTGGAA	GGTGCCACTC	3300
166 167	CCACTGTCCT	TTCCTAATAA	AATGAGGAAA	TTGCATCGCA	TTGTCTGAGT	AGGTGTCATT	3360
168 169	CTATTCTGGG	GGGTGGGGTG	GGGCAGGACA	GCAAGGGGGA	GGATTGGGAA	GACAATAGCA	3420
170 171 172	GGCATGCTGG	GGATGCGGTG	GGCTCTATGG	AACCAGCTGG	GGCTCGACAG	CGCTGGATCT	3480
172 173 174	CCCGATCCCC	AGCTTTGCTT	CTCAATTTCT	TATTTGCATA	ATGAGAAAAA	AAGGAAAATT	3540
175 176	AATTTTAACA	CCAATTCAGT	AGTTGATTGA	GCAAATGCGT	TGCCAAAAAG	GATGCTTTAG	3600
177 178	AGACAGTGTT	CTCTGCACAG	ATAAGGACAA	ACATTATTCA	GAGGGAGTAC	CCAGAGCTGA	3660
179 180	GACTCCTAAG	CCAGTGAGTG	GCACAGCATT	CTAGGGAGAA	ATATGCTTGT	CATCACCGAA	3720
181 182	GCCTGATTCC	GTAGAGCCAC	ACCTTGGTAA	GGGCCAATCT	GCTCACACAG	GATAGAGAGG	3780
183 184	GCAGGAGCCA	GGGCAGAGCA	TATAAGGTGA	GGTAGGATCA	GTTGCTCCTC	ACATTTGCTT	3840
185 186	CTGACATAGT	TGTGTTGGGA	GCTTGGATAG	CTTGGACAGC	TCAGGGCTGC	GATTTCGCGC	3900
187 188	CAAACTTGAC	GGCAATCCTA	GCGTGAAGGC	TGGTAGGATT	TTATCCCCGC	TGCCATCATG	3960
189 190	GTTCGACCAT	TGAACTGCAT	CGTCGCCGTG	TCCCAAAATA	TGGGGATTGG	CAAGAACGGA	4020
191 192	GACCTACCCT	GGCCTCCGCT	CAGGAACGAG	TTCAAGTACT	TCCAAAGAAT	GACCACAACC	4080
193 194	TCTTCAGTGG	AAGGTAAACA	GAATCTGGTG	ATTATGGGTA	GGAAAACCTG	GTTCTCCATT	4140
195 196	CCTGAGAAGA	ATCGACCTTT	AAAGGACAGA	ATTAATATAG	TTCTCAGTAG	AGAACTCAAA	4200
197 198	GAACCACCAC	GAGGAGCTCA	TTTTCTTGCC	AAAAGTTTGG	ATGATGCCTT	AAGACTTATT	4260
199 200	GAACAACCGG	AATTGGCAAG	TAAAGTAGAC	ATGGTTTGGA	TAGTCGGAGG	CAGTTCTGTT	4320
201 202	TACCAGGAAG	CCATGAATCA	ACCAGGCCAC	CTTAGACTCT	TTGTGACAAG	GATCATGCAG	4380
203 204	GAATTTGAAA	GTGACACGTT	TTTCCCAGAA	ATTGATTTGG	GGAAATATAA	ACTTCTCCCA	4440
205 206	GAATACCCAG	GCGTCCTCTC	TGAGGTCCAG	GAGGAAAAAG	GCATCAAGTA	TAAGTTTGAA	4500
207 208	GTCTACGAGA	AGAAAGACTA	ACAGGAAGAT	GCTTTCAAGT	TCTCTGCTCC	CCTCCTAAAG	4560

Raw Sequence Listing

05/27/93 16:25:02 S4547.raw

209	CTATGCATTT	TTATAAGACC	ATGGGACTTT	TGCTGGCTTT	AGATCAGCCT	CGACTGTGCC	4620
210 211	TTCTAGTTGC	CAGCCATCTG	TTGTTTGCCC	CTCCCCCGTG	CCTTCCTTGA	CCCTGGAAGG	4680
212 213	TGCCACTCCC	ACTGTCCTTT	CCTAATAAA	TGAGGAAATT	GCATCGCATT	GTCTGAGTAG	4740
214	GTGTCATTCT	ATTCTGGGGG	GTGGGGTGGG	GCAGGACAGC	AAGGGGGAGG	ATTGGGAAGA	4800
216 217	CAATAGCAGG	CATGCTGGGG	ATGCGGTGGG	CTCTATGGAA	CCAGCTGGGG	CTCGAGCTAC	4860
218 219	TAGCTTTGCT	TCTCAATTTC	TTATTTGCAT	AATGAGAAAA	AAAGGAAAAT	TAATTTTAAC	4920
220 221	ACCAATTCAG	TAGTTGATTG	AGCAAATGCG	TTGCCAAAAA	GGATGCTTTA	GAGACAGTGT	4980
222 223	TCTCTGCACA	GATAAGGACA	AACATTATTC	AGAGGGAGTA	CCCAGAGCTG	AGACTCCTAA	5040
224 225	GCCAGTGAGT	GGCACAGCAT	TCTAGGGAGA	AATATGCTTG	TCATCACCGA	AGCCTGATTC	5100
226 227	CGTAGAGCCA	CACCTTGGTA	AGGGCCAATC	TGCTCACACA	GGATAGAGAG	GGCAGGAGCC	5160
228 229	AGGGCAGAGC	ATATAAGGTG	AGGTAGGATC	AGTTGCTCCT	CACATTTGCT	TCTGACATAG	5220
230 231	TTGTGTTGGG	AGCTTGGATC	GATCCTCTAT	GGTTGAACAA	GATGGATTGC	ACGCAGGTTC	5280
232 233	TCCGGCCGCT	TGGGTGGAGA	GGCTATTCGG	CTATGACTGG	GCACAACAGA	CAATCGGCTG	5340
234 235	CTCTGATGCC	GCCGTGTTCC	GGCTGTCAGC	GCAGGGGCGC	CCGGTTCTTT	TTGTCAAGAC	5400
236 237	CGACCTGTCC	GGTGCCCTGA	ATGAACTGCA	GGACGAGGCA	GCGCGGCTAT	CGTGGCTGGC	5460
238 239	CACGACGGGC	GTTCCTTGCG	CAGCTGTGCT	CGACGTTGTC	ACTGAAGCGG	GAAGGGACTG	5520
240 241	GCTGCTATTG	GGCGAAGTGC	CGGGGCAGGA	TCTCCTGTCA	TCTCACCTTG	CTCCTGCCGA	5580
242 243	GAAAGTATCC	ATCATGGCTG	ATGCAATGCG	GCGGCTGCAT	ACGCTTGATC	CGGCTACCTG	5640
244 245	CCCATTCGAC	CACCAAGCGA	AACATCGCAT	CGAGCGAGCA	CGTACTCGGA	TGGAAGCCGG	5700
246 247	TCTTGTCGAT	CAGGATGATC	TGGACGAAGA	GCATCAGGGG	CTCGCGCCAG	CCGAACTGTT	5760
248 249	CGCCAGGCTC	AAGGCGCGCA	TGCCCGACGG	CGAGGATCTC	GTCGTGACCC	ATGGCGATGC	5820
250 251	CTGCTTGCCG	AATATCATGG	TGGAAAATGG	CCGCTTTTCT	GGATTCATCG	ACTGTGGCCG	5880
252 253	GCTGGGTGTG	GCGGACCGCT	ATCAGGACAT	AGCGTTGGCT	ACCCGTGATA	TTGCTGAAGA	5940
254 255	GCTTGGCGGC	GAATGGGCTG	ACCGCTTCCT	CGTGCTTTAC	GGTATCGCCG	CTCCCGATTC	6000
256 257						TCTGGGGTTC	
258 259						CACCGCCGCC	
260							

Raw Sequence Listing

05/27/93 16:25:03 S4547.raw

261 262	TTCTATGAAA	GGTTGGGCTT	CGGAATCGTT	TTCCGGGACG	CCGGCTGGAT	GATCCTCCAG	6180
263 264	CGCGGGGATC	TCATGCTGGA	GTTCTTCGCC	CACCCCAACT	TGTTTATTGC	AGCTTATAAT	6240
265 266	GGTTACAAAT	AAAGCAATAG	CATCACAAAT	TTCACAAATA	AAGCATTTTT	TTCACTGCAT	6300
267 268	TCTAGTTGTG	GTTTGTCCAA	ACTCATCAAT	CTATCTTATC	ATGTCTGGAT	CGCGGCCGCG	6360
269 270	ATCCCGTCGA	GAGCTTGGCG	TAATCATGGT	CATAGCTGTT	TCCTGTGTGA	AATTGTTATC	6420
271 272	CGCTCACAAT	TCCACACAAC	ATACGAGCCG	GAAGCATAAA	GTGTAAAGCC	TGGGGTGCCT	6480
273 274	AATGAGTGAG	CTAACTCACA	TTAATTGCGT	TGCGCTCACT	GCCCGCTTTC	CAGTCGGGAA	6540
275 276	ACCTGTCGTG	CCAGCTGCAT	TAATGAATCG	GCCAACGCGC	GGGGAGAGGC	GGTTTGCGTA	6600
277 278	TTGGGCGCTC	TTCCGCTTCC	TCGCTCACTG	ACTCGCTGCG	CTCGGTCGTT	CGGCTGCGGC	6660
279 280	GAGCGGTATC	AGCTCACTCA	AAGGCGGTAA	TACGGTTATC	CACAGAATCA	GGGGATAACG	6720
281 282	CAGGAAAGAA	CATGTGAGCA	AAAGGCCAGC	AAAAGGCCAG	GAACCGTAAA	AAGGCCGCGT	6780
283 284	TGCTGGCGTT	TTTCCATAGG	CTCCGCCCCC	CTGACGAGCA	TCACAAAAAT	CGACGCTCAA	6840
285 286	GTCAGAGGTG	GCGAAACCCG	ACAGGACTAT	AAAGATACCA	GGCGTTTCCC	CCTGGAAGCT	6900
287 288	CCCTCGTGCG	CTCTCCTGTT	CCGACCCTGC	CGCTTACCGG	ATACCTGTCC	GCCTTTCTCC	6960
289 290	CTTCGGGAAG	CGTGGCGCTT	TCTCAATGCT	CACGCTGTAG	GTATCTCAGT	TCGGTGTAGG	7020
291 292	TCGTTCGCTC	CAAGCTGGGC	TGTGTGCACG	AACCCCCCGT	TCAGCCCGAC	CGCTGCGCCT	7080
293 294	TATCCGGTAA	CTATCGTCTT	GAGTCCAACC	CGGTAAGACA	CGACTTATCG	CCACTGGCAG	7140
295 296	CAGCCACTGG	TAACAGGATT	AGCAGAGCGA	GGTATGTAGG	CGGTGCTACA	GAGTTCTTGA	7200
297 298	AGTGGTGGCC	TAACTACGGC	TACACTAGAA	GGACAGTATT	TGGTATCTGC	GCTCTGCTGA	7260
299 300	AGCCAGTTAC	CTTCGGAAAA	AGAGTTGGTA	GCTCTTGATC	CGGCAAACAA	ACCACCGCTG	7320
301 302	GTAGCGGTGG	TTTTTTTGTT	TGCAAGCAGC	AGATTACGCG	CAGAAAAAA	GGATCTCAAG	7380
303 304	AAGATCCTTT	GATCTTTTCT	ACGGGGTCTG	ACGCTCAGTG	GAACGAAAAC	TCACGTTAAG	7440
305 306	GGATTTTGGT	CATGAGATTA	TCAAAAAGGA	TCTTCACCTA	GATCCTTTTA	AATTAAAAAT	7500
307 308	GAAGTTTTAA	ATCAATCTAA	AGTATATATG	AGTAAACTTG	GTCTGACAGT	TACCAATGCT	7560
309 310	TAATCAGTGA	GGCACCTATC	TCAGCGATCT	GTCTATTTCG	TTCATCCATA	GTTGCCTGAC	7620
311 312	TCCCCGTCGT	GTAGATAACT	ACGATACGGG	AGGGCTTACC	ATCTGGCCCC	AGTGCTGCAA	7680

Raw Sequence Listing

05/27/93 16:25:22 S4547.raw

313 314	TGATAC	CCGCG	AGACCCACGC	TCACCGGCTC	CAGATTTATC	AGCAATAAAC	CAGCCAGCCG	7740
315 316	GAAGG	ECCGA	GCGCAGAAGT	GGTCCTGCAA	CTTTATCCGC	CTCCATCCAG	TCTATTAATT	7800
317 318	GTTGC	CGGGA	AGCTAGAGTA	AGTAGTTCGC	CAGTTAATAG	TTTGCGCAAC	GTTGTTGCCA	7860
319 320	TTGCT?	ACAGG	CATCGTGGTG	TCACGCTCGT	CGTTTGGTAT	GGCTTCATTC	AGCTCCGGTT	7920
321 322	CCCAAC	CGATC	AAGGCGAGTT	ACATGATCCC	CCATGTTGTG	CAAAAAAGCG	GTTAGCTCCT	7980
323 324	TCGGT	CCTCC	GATCGTTGTC	AGAAGTAAGT	TGGCCGCAGT	GTTATCACTC	ATGGTTATGG	8040
325 326	CAGCAC	CTGCA	TAATTCTCTT	ACTGTCATGC	CATCCGTAAG	ATGCTTTTCT	GTGACTGGTG	8100
327 328							TCTTGCCCGG	
329 330	CGTCA	ATACG	GGATAATACC	GCGCCACATA	GCAGAACTTT	AAAAGTGCTC	ATCATTGGAA	8220
331 332							AGTTCGATGT	
333 334							GTTTCTGGGT	
335 336							CGGAAATGTT	
337 338	-						TATTGTCTCA	
339 340	TGAGC	GATA	CATATTTGAA	TGTATTTAGA	AAAATAAACA	AATAGGGGTT	CCGCGCACAT	
341 342 343	TTCCC	CGAAA	AGTGCCACCT					8540
344 345	(3)	INFOR	RMATION FOR	SEQ ID NO:	2:			
346 347	(i)	SEQUE	ENCE CHARACT	reristics:				
348	(A)	LENGT	TH: 9209 ba	ases				
349	(B)	TYPE:	nucleic a	acid				
350	(C)	STRAN	NDEDNESS: 4	single				
351 352	(D)	TOPOI						
353 354	(ii)		CULE TYPE:	DNA (genom:	ic)			
355 356	(111)	HYPOT	THETICAL: 1	10				
357 358	(iv)		-SENSE: no					
359 360 361	(ix)	SEQUI	NCE DESCRII	PTION: SEQ	ID NO: 2:			
362 363	GACGT	CGCGG	CCGCTCTAGG	CCTCCAAAAA	AGCCTCCTCA	CTACTTCTGG	AATAGCTCAG	60
364	AGGCC	GAGGC	GGCCTCGGCC	TCTGCATAAA	TAAAAAAAAT	TAGTCAGCCA	TGCATGGGGC	120

Raw Sequence Listing

05/27/93 16:25:29 S4547.raw

265							
365 366	GGAGAATGGG	CGGAACTGGG	CGGAGTTAGG	GGCGGGATGG	GCGGAGTTAG	GGGCGGGACT	180
367 368	ATGGTTGCTG	ACTAATTGAG	ATGCATGCTT	TGCATACTTC	TGCCTGCTGG	GGAGCCTGGG	240
369 370	GACTTTCCAC	ACCTGGTTGC	TGACTAATTG	AGATGCATGC	TTTGCATACT	TCTGCCTGCT	300
371 372	GGGGAGCCTG	GGGACTTTCC	ACACCCTAAC	TGACACACAT	TCCACAGAAT	TAATTCCCCT	360
373 374	AGTTATTAAT	AGTAATCAAT	TACGGGGTCA	TTAGTTCATA	GCCCATATAT	GGAGTTCCGC	420
375 376	GTTACATAAC	TTACGGTAAA	TGGCCCGCCT	GGCTGACCGC	CCAACGACCC	CCGCCCATTG	480
377 378	ACGTCAATAA	TGACGTATGT	TCCCATAGTA	ACGCCAATAG	GGACTTTCCA	TTGACGTCAA	540
379							
380 381	TGGGTGGACT	ATTTACGGTA	AACTGCCCAC	TTGGCAGTAC	ATCAAGTGTA	TCATATGCCA	600
382 383	AGTACGCCCC	CTATTGACGT	CAATGACGGT	AAATGGCCCG	CCTGGCATTA	TGCCCAGTAC	660
384 385	ATGACCTTAT	GGGACTTTCC	TACTTGGCAG	TACATCTACG	TATTAGTCAT	CGCTATTACC	720
386	ATGGTGATGC	GGTTTTGGCA	GTACATCAAT	GGGCGTGGAT	AGCGGTTTGA	CTCACGGGGA	780
387 388	TTTCCAAGTC	TCCACCCCAT	TGACGTCAAT	GGGAGTTTGT	TTTGGCACCA	AAATCAACGG	840
389 390	GACTTTCCAA	AATGTCGTAA	CAACTCCGCC	CCATTGACGC	AAATGGGCGG	TAGGCGTGTA	900
391	CGGTGGGAGG	TCTATATAAG	CAGAGCTGGG	TACGTGAACC	GTCAGATCGC	CTGGAGACGC	960
392 393	CATCACAGAT	CTCTCACTAT	GGATTTTCAG	GTGCAGATTA	TCAGCTTCCT	GCTAATCAGT	1020
394 395	GCTTCAGTCA	TAATGTCCAG	AGGACAAATT	GTTCTCTCCC	AGTCTCCAGC	AATCCTGTCT	1080
396 397	GCATCTCCAG	GGGAGAAGGT	CACAATGACT	TGCAGGGCCA	GCTCAAGTGT	AAGTTACATC	1140
398 399	CACTGGTTCC	AGCAGAAGCC	AGGATCCTCC	CCCAAACCCT	GGATTTATGC	CACATCCAAC	1200
400 401	ርጥርርርርምጥርጥር	GAGTCCCTGT	ጥ ርርርጥጥር አርጥ	CCCACTCCCT	で ずではなる。	ጥ አርጥርጥርጥር	1260
402	0100011010	ondicceidi	1000110101	0001010001	01000110110		
403 404	ACAATCAGCA	GAGTGGAGGC	TGAAGATGCT	GCCACTTATT	ACTGCCAGCA	GTGGACTAGT	1320
405 406	AACCCACCCA	CGTTCGGAGG	GGGGACCAAG	CTGGAAATCA	AACGTACGGT	GGCTGCACCA	1380
407	TCTGTCTTCA	TCTTCCCGCC	ATCTGATGAG	CAGTTGAAAT	CTGGAACTGC	CTCTGTTGTG	1440
408 409	TGCCTGCTGA	ATAACTTCTA	TCCCAGAGAG	GCCAAAGTAC	AGTGGAAGGT	GGATAACGCC	1500
410 411	CTCCAATCGG	GTAACTCCCA	GGAGAGTGTC	ACAGAGCAGG	ACAGCAAGGA	CAGCACCTAC	1560
412 413	AGCCTCAGCA	GCACCCTGAC	GCTGAGCAAA	GCAGACTACG	AGAAACACAA	AGTCTACGCC	1620
414 415 416	TGCGAAGTCA	CCCATCAGGG	CCTGAGCTCG	CCCGTCACAA	AGAGCTTCAA	CAGGGGAGAG	1680

Raw Sequence Listing

05/27/93 16:25:36 S4547.raw

417 418	TGTTGAATTC	AGATCCGTTA	ACGGTTACCA	ACTACCTAGA	CTGGATTCGT	GACAACATGC	1740
419 420	GGCCGTGATA	TCTACGTATG	ATCAGCCTCG	ACTGTGCCTT	CTAGTTGCCA	GCCATCTGTT	1800
421 422	GTTTGCCCCT	CCCCCGTGCC	TTCCTTGACC	CTGGAAGGTG	CCACTCCCAC	TGTCCTTTCC	1860
423 424	TAATAAAATG	AGGAAATTGC	ATCGCATTGT	CTGAGTAGGT	GTCATTCTAT	TCTGGGGGGT	1920
425	GGGGTGGGGC	AGGACAGCAA	GGGGGAGGAT	TGGGAAGACA	ATAGCAGGCA	TGCTGGGGAT	1980
426 427	GCGGTGGGCT	CTATGGAACC	AGCTGGGGCT	CGACAGCTAT	GCCAAGTACG	CCCCCTATTG	2040
428 429	ACGTCAATGA	CGGTAAATGG	CCCGCCTGGC	ATTATGCCCA	GTACATGACC	TTATGGGACT	2100
430 431	TTCCTACTTG	GCAGTACATC	TACGTATTAG	TCATCGCTAT	TACCATGGTG	ATGCGGTTTT	2160
432 433	GGCAGTACAT	CAATGGGCGT	GGATAGCGGT	TTGACTCACG	GGGATTTCCA	AGTCTCCACC	2220
434	CCATTGACGT	CAATGGGAGT	TTGTTTTGGC	ACCAAAATCA	ACGGGACTTT	CCAAAATGTC	2280
436 437	GTAACAACTC	CGCCCCATTG	ACGCAAATGG	GCGGTAGGCG	TGTACGGTGG	GAGGTCTATA	2340
438 439	TAAGCAGAGC	TGGGTACGTC	CTCACATTCA	GTGATCAGCA	CTGAACACAG	ACCCGTCGAC	2400
440 441	ATGGGTTGGA	GCCTCATCTT	GCTCTTCCTT	GTCGCTGTTG	CTACGCGTGT	CCTGTCCCAG	2460
442 443	GTACAACTGC	AGCAGCCTGG	GGCTGAGCTG	GTGAAGCCTG	GGGCCTCAGT	GAAGATGTCC	2520
444 445	TGCAAGGCTT	CTGGCTACAC	ATTTACCAGT	TACAATATGC	ACTGGGTAAA	ACAGACACCT	2580
446 447	GGTCGGGGCC	TGGAATGGAT	TGGAGCTATT	TATCCCGGAA	ATGGTGATAC	TTCCTACAAT	2640
448 449	CAGAAGTTCA	AAGGCAAGGC	CACATTGACT	GCAGACAAAT	CCTCCAGCAC	AGCCTACATG	2700
450 451			TGAGGACTCT				2760
452 453			CAATGTCTGG				2820
454 455	GCTAGCACCA						2880
456 457						GACGGTGTCG	2940
458 459						ACAGTCCTCA	3000
460 461						CACCCAGACC	3060
462 463						AGCAGAGCCC	
464 465						CCTGGGGGGA	3180
466 467						CCGGACCCCT	
468					TONIGNICIC	CCGGMCCCCT	344V

Raw Sequence Listing

05/27/93 16:25:43 \$4547.raw

469 470	GAGGTCACAT	GCGTGGTGGT	GGACGTGAGC	CACGAAGACC	CTGAGGTCAA	GTTCAACTGG	3300
471 472	TACGTGGACG	GCGTGGAGGT	GCATAATGCC	AAGACAAAGC	CGCGGGAGGA	GCAGTACAAC	3360
473	AGCACGTACC	GTGTGGTCAG	CGTCCTCACC	GTCCTGCACC	AGGACTGGCT	GAATGGCAAG	3420
474 475	GAGTACAAGT	GCAAGGTCTC	CAACAAAGCC	CTCCCAGCCC	CCATCGAGAA	AACCATCTCC	3480
476 477	AAAGCCAAAG	GGCAGCCCCG	AGAACCACAG	GTGTACACCC	TGCCCCCATC	CCGGGATGAG	3540
478 479	CTGACCAAGA	ACCAGGTCAG	CCTGACCTGC	CTGGTCAAAG	GCTTCTATCC	CAGCGACATC	3600
480 481	GCCGTGGAGT	GGGAGAGCAA	TGGGCAGCCG	GAGAACAACT	ACAAGACCAC	GCCTCCCGTG	3660
482 483		ACGGCTCCTT					3720
484		`					
485 486		ACGTCTTCTC					3780
487 488	CAGAAGAGCC	TCTCCCTGTC	TCCGGGTAAA	TGAGGATCCG	TTAACGGTTA	CCAACTACCT	3840
489 490	AGACTGGATT	CGTGACAACA	TGCGGCCGTG	ATATCTACGT	ATGATCAGCC	TCGACTGTGC	3900
491 492	CTTCTAGTTG	CCAGCCATCT	GTTGTTTGCC	CCTCCCCCGT	GCCTTCCTTG	ACCCTGGAAG	3960
493 494	GTGCCACTCC	CACTGTCCTT	TCCTAATAAA	ATGAGGAAAT	TGCATCGCAT	TGTCTGAGTA	4020
495	GGTGTCATTC	TATTCTGGGG	GGTGGGGTGG	GGCAGGACAG	CAAGGGGGAG	GATTGGGAAG	4080
496 497	ACAATAGCAG	GCATGCTGGG	GATGCGGTGG	GCTCTATGGA	ACCAGCTGGG	GCTCGACAGC	4140
498 499	GCTGGATCTC	CCGATCCCCA	GCTTTGCTTC	TCAATTTCTT	ATTTGCATAA	TGAGAAAAA	4200
500 501	AGGAAAATTA	ATTTTAACAC	CAATTCAGTA	GTTGATTGAG	CAAATGCGTT	GCCAAAAAGG	4260
502 503	ATGCTTTAGA	GACAGTGTTC	TCTGCACAGA	TAAGGACAAA	CATTATTCAG	AGGGAGTACC	4320
504 505	CAGAGCTGAG	ACTCCTAAGC	CAGTGAGTGG	CACAGCATTC	TAGGGAGAAA	TATGCTTGTC	4380
506 507		CCTGATTCCG					4440
508							
509 510						TTGCTCCTCA	4500
511 512	CATTTGCTTC	TGACATAGTT	GTGTTGGGAG	CTTGGATAGC	TTGGACAGCT	CAGGGCTGCG	4560
513 514	ATTTCGCGCC	AAACTTGACG	GCAATCCTAG	CGTGAAGGCT	GGTAGGATTT	TATCCCCGCT	4620
515 516	GCCATCATGG	TTCGACCATT	GAACTGCATC	GTCGCCGTGT	CCCAAAATAT	GGGGATTGGC	4680
517 518	AAGAACGGAG	ACCTACCCTG	GCCTCCGCTC	AGGAACGAGT	TCAAGTACTT	CCAAAGAATG	4740
519 520	ACCACAACCT	CTTCAGTGGA	AGGTAAACAG	AATCTGGTGA	TTATGGGTAG	GAAAACCTGG	4800
3 4 U							

Raw Sequence Listing

05/27/93 16:25:43 S4547.raw

521	TTCTCCATTC	CTGAGAAGAA	TCGACCTTTA	AAGGACAGAA	TTAATATAGT	TCTCAGTAGA	4860
522 523	GAACTCAAAG	AACCACCACG	AGGAGCTCAT	TTTCTTGCCA	AAAGTTTGGA	TGATGCCTTA	4920
524 525 526	AGACTTATTG	AACAACCGGA	ATTGGCAAGT	AAAGTAGACA	TGGTTTGGAT	AGTCGGAGGC	4980
527 528	AGTTCTGTTT	ACCAGGAAGC	CATGAATCAA	CCAGGCCACC	TTAGACTCTT	TGTGACAAGG	5040
529 530	ATCATGCAGG	AATTTGAAAG	TGACACGTTT	TTCCCAGAAA	TTGATTTGGG	GAAATATAAA	5100
531 532	CTTCTCCCAG	AATACCCAGG	CGTCCTCTCT	GAGGTCCAGG	AGGAAAAAGG	CATCAAGTAT	5160
533 534	AAGTTTGAAG	TCTACGAGAA	GAAAGACTAA	CAGGAAGATG	CTTTCAAGTT	CTCTGCTCCC	5220
535 536	CTCCTAAAGC	TATGCATTTT	TATAAGACCA	TGGGACTTTT	GCTGGCTTTA	GATCAGCCTC	5280
537 538	GACTGTGCCT	TCTAGTTGCC	AGCCATCTGT	TGTTTGCCCC	TCCCCCGTGC	CTTCCTTGAC	5340
539 540	CCTGGAAGGT	GCCACTCCCA	CTGTCCTTTC	CTAATAAAAT	GAGGAAATTG	CATCGCATTG	5400
541 542	TCTGAGTAGG	TGTCATTCTA	TTCTGGGGGG	TGGGGTGGGG	CAGGACAGCA	AGGGGGAGGA	5460
543 544	TTGGGAAGAC	AATAGCAGGC	ATGCTGGGGA	TGCGGTGGGC	TCTATGGAAC	CAGCTGGGGC	5520
545 546	TCGAGCTACT	AGCTTTGCTT	CTCAATTTCT	TATTTGCATA	ATGAGAAAAA	AAGGAAAATT	5580
547 548	AATTTTAACA	CCAATTCAGT	AGTTGATTGA	GCAAATGCGT	TGCCAAAAAG	GATGCTTTAG	5640
549 550	AGACAGTGTT	CTCTGCACAG	ATAAGGACAA	ACATTATTCA	GAGGGAGTAC	CCAGAGCTGA	5700
551 552	GACTCCTAAG	CCAGTGAGTG	GCACAGCATT	CTAGGGAGAA	ATATGCTTGT	CATCACCGAA	5760
553 554	GCCTGATTCC	GTAGAGCCAC	ACCTTGGTAA	GGGCCAATCT	GCTCACACAG	GATAGAGAGG	5820
555 556	GCAGGAGCCA	GGGCAGAGCA	TATAAGGTGA	GGTAGGATCA	GTTGCTCCTC	ACATTTGCTT	5880
557 558	CTGACATAGT	TGTGTTGGGA	GCTTGGATCG	ATCCTCTATG	GTTGAACAAG	ATGGATTGCA	5940
559 560	CGCAGGTTCT	CCGGCCGCTT	GGGTGGAGAG	GCTATTCGGC	TATGACTGGG	CACAACAGAC	6000
561 562	AATCGGCTGC	TCTGATGCCG	CCGTGTTCCG	GCTGTCAGCG	CAGGGGCGCC	CGGTTCTTTT	6060
563 564	TGTCAAGACC	GACCTGTCCG	GTGCCCTGAA	TGAACTGCAG	GACGAGGCAG	CGCGGCTATC	6120
565 566	GTGGCTGGCC	ACGACGGGCG	TTCCTTGCGC	AGCTGTGCTC	GACGTTGTCA	CTGAAGCGGG	6180
567 568	AAGGGACTGG	CTGCTATTGG	GCGAAGTGCC	GGGGCAGGAT	CTCCTGTCAT	CTCACCTTGC	6240
569 570	TCCTGCCGAG	AAAGTATCCA	TCATGGCTGA	TGCAATGCGG	CGGCTGCATA	CGCTTGATCC	6300
571 572	GGCTACCTGC	CCATTCGACC	ACCAAGCGAA	ACATCGCATC	GAGCGAGCAC	GTACTCGGAT	6360

Raw Sequence Listing

05/27/93 16:25:56 S4547.raw

573	GGAAGCCGGT	CTTGTCGATC	AGGATGATCT	GGACGAAGAG	CATCAGGGGC	TCGCGCCAGC	6420
574 575 576	CGAACTGTTC	GCCAGGCTCA	AGGCGCGCAT	GCCCGACGGC	GAGGATCTCG	TCGTGACCCA	6480
577 578	TGGCGATGCC	TGCTTGCCGA	ATATCATGGT	GGAAAATGGC	CGCTTTTCTG	GATTCATCGA	6540
579 580	CTGTGGCCGG	CTGGGTGTGG	CGGACCGCTA	TCAGGACATA	GCGTTGGCTA	CCCGTGATAT	6600
581 582	TGCTGAAGAG	CTTGGCGGCG	AATGGGCTGA	CCGCTTCCTC	GTGCTTTACG	GTATCGCCGC	6660
583 584	TCCCGATTCG	CAGCGCATCG	CCTTCTATCG	CCTTCTTGAC	GAGTTCTTCT	GAGCGGGACT	6720
585 586	CTGGGGTTCG	AAATGACCGA	CCAAGCGACG	CCCAACCTGC	CATCACGAGA	TTTCGATTCC	6780
587 588		TCTATGAAAG					6840
589 590		GCGGGGATCT					6900
591 592		GTTACAAATA					6960
593 594		CTAGTTGTGG					7020
595 596		TCCCGTCGAG					7080 7140
597 598		GCTCACAATT					7200
599 600							7260
601 602		CCTGTCGTGC					7320
603 604 605		AGCGGTATCA					7380
606 607		AGGAAAGAAC					7440
608 609		GCTGGCGTTT					7500
610 611		TCAGAGGTGG					7560
612 613						TACCTGTCCG	7620
614 615			•			TATCTCAGTT	7680
616 617		CGTTCGCTCC					7740
618 619		ATCCGGTAAC					7800
620 621						GGTGCTACAG	7860
622 623						GGTATCTGCG	7920
624							

Raw Sequence Listing

05/27/93 16:26:03 S4547.raw

Patent Application US/07/978,891B

625 626	CTCTGCTGAA	GCCAGTTACC	TTCGGAAAAA	GAGTTGGTAG	CTCTTGATCC	GGCAAACAAA	7980
627	CCACCGCTGG	TAGCGGTGGT	TTTTTTGTTT	GCAAGCAGCA	GATTACGCGC	AGAAAAAAG	8040
628 629	GATCTCAAGA	AGATCCTTTG	ATCTTTTCTA	CGGGGTCTGA	CGCTCAGTGG	AACGAAAACT	8100
630 631	CACGTTAAGG	GATTTTGGTC	ATGAGATTAT	CAAAAAGGAT	CTTCACCTAG	ATCCTTTTAA	8160
632							
633 634	ATTAAAAATG	AAGTTTTAAA	TCAATCTAAA	GTATATATGA	GTAAACTTGG	TCTGACAGTT	8220
635	ACCAATGCTT	AATCAGTGAG	GCACCTATCT	CAGCGATCTG	TCTATTTCGT	TCATCCATAG	8280
636 637	TTGCCTGACT	CCCCGTCGTG	TAGATAACTA	CGATACGGGA	GGGCTTACCA	TCTGGCCCCA	8340
638 639	GTGCTGCAAT	GATACCGCGA	GACCCACGCT	CACCGGCTCC	AGATTTATCA	GCAATAAACC	8400
640							
641 642	AGCCAGCCGG	AAGGGCCGAG	CGCAGAAGTG	GTCCTGCAAC	TTTATCCGCC	TCCATCCAGT	8460
643	CTATTAATTG	TTGCCGGGAA	GCTAGAGTAA	GTAGTTCGCC	AGTTAATAGT	TTGCGCAACG	8520
644 645	TTGTTGCCAT	TGCTACAGGC	ATCGTGGTGT	CACGCTCGTC	GTTTGGTATG	GCTTCATTCA	8580
646 647	CCTCCCCTTC	CCAACGATCA	AGGCGAGTTA	СУДСУДСССС	СУДСТАСТСС		8640
648							
649 650	TTAGCTCCTT	CGGTCCTCCG	ATCGTTGTCA	GAAGTAAGTT	GGCCGCAGTG	TTATCACTCA	8700
651	TGGTTATGGC	AGCACTGCAT	AATTCTCTTA	CTGTCATGCC	ATCCGTAAGA	TGCTTTTCTG	8760
652 653	TGACTGGTGA	GTACTCAACC	AAGTCATTCT	GAGAATAGTG	TATGCGGCGA	CCGAGTTGCT	8820
654 655	CTTCCCCCCC	GTCAATACGG	C3 T3 3 T3 CCC	CCCCA CATAC	C3 C3 3 CTTTT3	እ እ እ <i>ርሞርር</i> ሞር እ	8880
656	CTTGCCCGGC	GICAAIACGG	GATAATACCG	CGCCACATAG	CMGAACITIA	AAAGIGCICA	0000
657 658	TCATTGGAAA	ACGTTCTTCG	GGGCGAAAAC	TCTCAAGGAT	CTTACCGCTG	TTGAGATCCA	8940
659	GTTCGATGTA	ACCCACTCGT	GCACCCAACT	GATCTTCAGC	ATCTTTTACT	TTCACCAGCG	9000
660 661	TTTCTGGGTG	AGCAAAAACA	GGAAGGCAAA	ATGCCGCAAA	AAAGGGAATA	AGGGCGACAC	9060
662	GG1 1 1 MGMMG	11m1cmc1m1	anannaann	mmamma	mma	m> ma> accum	0120
663 664	GGAAATGTTG	AATACTCATA	CTCTTCCTTT	TTCAATATTA	TTGAAGCATT	TATCAGGGTT	9120
665 666	ATTGTCTCAT	GAGCGGATAC	ATATTTGAAT	GTATTTAGAA	AAATAAACAA	ATAGGGGTTC	9180
667	CGCGCACATT	TCCCCGAAAA	GTGCCACCT				9209
660							

668 669 670

671

673

(4) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:

672 (A) LENGTH: 47 bases

(B) TYPE: nucleic acid

674 (C) STRANDEDNESS: single

675 (D) TOPOLOGY: linear

676

(ii)

Raw Sequence Listing

MOLECULE TYPE: DNA (genomic)

05/27/93 16:26:10 S4547.raw

678		-									
679	(iii)	HYPOTHETICAL: no									
680	\	······································									
681	(iv)	ANTI-SENSE: no									
682	(14)	70/9° PROIDE: 07A									
683	(ix)	SEQUENCE DESCRIPTION: SEQ ID NO: 3:									
684	(TX)	BEQUENCE DESCRIPTION. DEG ID NO. J.									
	.==	GAT CTC TCA CCA TGG ATT TTC AGG TBC AGA TTA TCA GCT 45									
685											
686	TC	47									
687	(5)										
688	(5) INFORMATION FOR SEQ ID NO: 4:										
689	(i) SEQUENCE CHARACTERISTICS:										
690	(A) LENGTH: 30 bases										
691	(B) TY	TPE: nucleic acid									
692	(C) STRANDEDNESS: single										
693	(D) TC	POLOGY: linear									
694											
695	(ii)	MOLECULE TYPE: DNA (genomic)									
696											
697	(iii)	HYPOTHETICAL: no									
698											
699	(iv)	ANTI-SENSE: yes									
700	•	· · · · · · · · · · · · · · · · · · ·									
701	(ix)	SEQUENCE DESCRIPTION: SEQ ID NO: 4:									
702											
703	TGC AGC	ATC CGT ACG TTT GAT TTC CAG CTT 30									
704											
705	(6)	INFORMATION FOR SEQ ID NO: 5:									
706	(-,										
707	(i)	SEQUENCE CHARACTERISTICS:									
708	\- ,										
709	(A)	LENGTH: 384 bases									
710	(,	TYPE: nucleic acid									
711		STRANDEDNESS: single									
712		TOPOLOGY: linear									
713	(5)	101010011. 1111041									
714	(ii)	MOLECULE TYPE: DNA (genomic)									
715	(11)	MODECOLS IIFE. DAA (genomic)									
716	/ 2 2 2 \	HYPOTHETICAL: no									
717	(111)	NIFOIREITCAB: NO									
	(iv)	NAME CONCE									
718 719	(10)	ANTI-SENSE: no									
720	()	SEQUENCE DESCRIPTION: SEQ ID NO: 5:									
	(ix)	SEQUENCE DESCRIPTION: SEQ ID NO. J.									
721											
722		AT TTT CAG GTG CAG ATT ATC AGC TTC CTG CTA ATC AGT GCT TCA GTC 51									
723	ATG GA	AT TIT CAG GIG CAG ATT AIC AGC IIC CIG CIA AIC AGI GCI ICA GIC SI									
724		TG TCC AGA GGG CAA ATT GTT CTC TCC CAG TCT CCA GCA ATC CTG TCT 102									
725	ATA AT	TG TUC AGA GGG CAR ATT GIT CIC ICC CAG ICI CCA GCA AIC CIG ICI 102									
726	965	TT CCA GGG GAG AAG GTC ACA ATG ACT TGC AGG GCC AGC TCA AGT GTA 153									
727	GCA TO	CT CCA GGG GAG AAG GTC ACA ATG ACT TGC AGG GCC AGC TCA AGT GTA 153									
728											

Raw Sequence Listing

05/27/93 16:26:16 S4547.raw

729	AGT T	AC ATC CAC TGG TTC CAG CAG AAG CCA GGA TCC TCC CCC AAA CCC TGG 204										
730												
731	ATT T	AT GCC ACA TCC AAC CTG GCT TCT GGA GTC CCT GTT CGC TTC AGT GGC 255										
732												
733	AGT G	GG TCT GGG ACT TCT TAC TCT CTC ACA ATC AGC AGA GTG GAG GCT GAA 306										
734		CT CCC 1CT TIM TIG TCC CIC CIC TCC 1CT 1CT 11C CC1 CCC 1CC TCC 1CT										
735 736	GAT G	CT GCC ACT TAT TAC TGC CAG CAG TGG ACT AGT AAC CCA CCC ACG TTC 357										
736 737	663 66	00 000 300 330 0m0 033 3m0 333										
73 <i>1</i> 738	GGA G	GG GGG ACC AAG CTG GAA ATC AAA 384										
738 739												
739 740	(7)	THEODMATION FOR SEC ID NO. 6.										
741	(7) INFORMATION FOR SEQ ID NO: 6:											
742	(i)	SEQUENCE CHARACTERISTICS:										
743	(1)	SEQUENCE CHARACIERISTICS:										
744	(A) LENGTH: 27 bases											
745	(B)	TYPE: nucleic acid										
746	(B)											
747	(D)	STRANDEDNESS: single										
748	(D)) TOPOLOGY: linear										
749	(ii)	MOLECULE TYPE: DNA (genomic)										
750	(11)	MODECOLE III DAM (GONOMIC)										
751	(444)	HYPOTHETICAL: no										
752	(,											
753	(iv)	ANTI-SENSE: no										
754	(= , ,											
755	(ix)	SEQUENCE DESCRIPTION: SEQ ID NO: 6:										
756	(===7											
757	GCG GCT	CCC ACG CGT GTC CTG TCC CAG 27										
758												
759	(8)	INFORMATION FOR SEQ ID NO: 7:										
760												
761	(i)	SEQUENCE CHARACTERISTICS:										
762												
763	(A)	LENGTH: 29 bases										
764	(B)	TYPE: nucleic acid										
765	(C)	STRANDEDNESS: single										
766	(D)	TOPOLOGY: linear										
767												
768	(ii)	MOLECULE TYPE: DNA (genomic)										
769												
770	(iii)	HYPOTHETICAL: no										
771												
772	(iv)	ANTI-SENSE: yes										
773												
774	(ix)	SEQUENCE DESCRIPTION: SEQ ID NO: 7:										
775												
776	GGS TGT	TGT GCT AGC TGM RGA GAC RGT GA 29										
777	(0)	TYPODY BOD GEO TO NO. 9.										
778	(9)	INFORMATION FOR SEQ ID NO: 8:										
779 780	/4 >	CROHENCE CUADACTEDICTICS.										
780	(i)	SEQUENCE CHARACTERISTICS:										

Raw Sequence Listing

05/27/93 16:26:23 S4547.raw

781														
782	(A)	LENGTH: 420 bases												
783	(B)	TYPE: nu	TYPE: nucleic acid											
784	(C)	STRANDEDI	STRANDEDNESS: single											
785	(D)	TOPOLOGY:	TOPOLOGY: linear											
786														
787	(ii)	MOLECULE TYPE: DNA (genomic)												
788														
789	(iii)	HYPOTHETICAL: no												
790														
791	(iv)	(iv) ANTI-SENSE: no												
792														
793	(ix)	SEQUENCE	DESCRIP	TION:	SEQ I	ONO:	8 :	:						
794														
795	ATG GG	T TGG AGC	CTC ATC	TTG CI	C TTC	CTT	GTC	GCT	GTT	GCT	ACG	CGT	GTC	51
796														
797	CTG TC	C CAG GTA	CAA CTG	CAG CA	G CCT	GGG	GCT	GAG	CTG	GTG	AAG	CCT	GGG	102
798														
799	GCC TC	A GTG AAG	ATG TCC	TGC AA	G GCT	TCT	GGC	TAC	ACA	TTT	ACC	AGT	TAC	153
800														
801	AAT AT	G CAC TGG	GTA AAA	CAG AC	LA CCT	GGT	CGG	GGC	CTG	GAA	TGG	ATT	GGA	204
802														
803	GCT AT	T TAT CCC	GGA AAT	GGT G	AT ACT	TCC	TAC	AAT	CAG	AAG	TTC	AAA	GGC	255
804														
805	AAG GC	C ACA TTG	ACT GCA	GAC AF	LA TCC	TCC	AGC	ACA	GCC	TAC	ATG	CAG	CTC	306
806					_ ~~~									255
807	AGC AG	C CTG ACA	TCT GAG	GAC TO	T GCG	GTC	TAT	TAC	TGT	GCA	AGA	TCG	ACT	357
808	m. a =-		a.a ===			a=c		~~~	~~*				ama	400
809		C GGC GGT	GAC TGG	TAC TI	C AAT	GTC	TGG	GGC	GCA		ACC	ACG	GTC	408
810	ACC GT	C TCT GCA								420				
811														